

Penetration Safety: Penetration Permit

Work Request # (if applicable): _____ Date Permit Submitted: 8-3-09

General Information

Area/location	Date(s) work will be performed	Job description (location of penetration, material to be penetrated, tools, etc)
LCLS FEH	8-3-09	Drill Floor + Wall Monuments
Responsible line manager or designee Name/Organization	Phone #	Other information (e.g., depth of penetration, etc)
Hans Imfeld	X3472	2 1/4"

Class 1 Penetration Checklist

Hollow walls, ceilings or floors, or 2 inches or less into solid material

	Yes	N/A
Checked other side of walls, under floors, or through false ceilings for hazards?	___	___
Verified stud locations?	___	___
Non-conductive tools to be used?	___	___
Masonry bits and hand tools to be used for initial penetration?	___	___
Drill bit stops or short drill bits (2 inches or less) to be used for solid material?	___	___
Electrical tools equipped with GFCIs or double insulated?	___	___
GFCIs tested?	___	___
Appropriate PPE specified (see page 3) and obtained?	___	___
PPE inspection(s) up to date?	___	___
Penetration is within a radiologically controlled area or a radioactive material management area? <i>If yes, complete the "Radiation Safety" portion of the form.</i>	___	___
Penetration is part of accelerator shielding (for example: the Accelerator Housing Structure, End Station A Hall, Klystron Gallery Floor)? <i>If yes, complete the "Radiological Safety" section of the form.</i>	___	___
A Radiation Safety Work Control Form (RSWCF) is required for all penetrations that meet any of the following conditions (contact the area safety officer for more information):	___	___
<ul style="list-style-type: none"> • Into or through non-concrete radiation shielding • Into concrete radiation shielding, with penetration exceeding 2 inches in diameter • Into concrete radiation shielding, with penetration exceeding 6 inches deep • Into concrete radiation shielding where penetration is not re-filled with a dense material (e.g. concrete or steel) • All the way through concrete radiation shielding 		
Checklist completed by: _____	Date: _____	

Complete "Hazards and Required Controls" section.

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Class 2 Penetration Checklist

Greater than 2 inches into solid material

	Yes	N/A
Reviewed historical records, engineering plans, and drawings?	<u>X</u>	___
Area responsible person/designee, customer/requester, or other personnel consulted?	<u>X</u>	___
Visually inspected proposed location of penetration?	<u>X</u>	___
Checked other side of walls, under floors, or through false ceilings for hazards?	___	<u>X</u>
De-energized and locked/tagged-out energy sources as required?	___	<u>X</u>
NDT used to determine if additional hazards exist? <i>If yes, list results under "Hazards."</i>	___	<u>X</u>
NDT used to determine wall reinforcement?	___	<u>X</u>
Electrical tools equipped with GFCI or double-insulated?	<u>X</u>	___
GFCIs tested?	<u>X</u>	___
Appropriate PPE specified (see page 3) and obtained?	<u>X</u>	___
PPE inspection(s) up to date?	<u>X</u>	___
Short drill bits used or equipment marked to limit penetration depth?	<u>X</u>	___
Penetration is within a radiologically controlled area or a radioactive material management area. <i>If yes, complete the "Radiological Safety" section of the form.</i>	___	<u>X</u>
Penetration is part of accelerator shielding (for example: the Accelerator Housing Structure, End Station A Hall, Klystron Gallery Floor)? <i>If yes, complete the "Radiological Safety" section of the form.</i>	___	<u>X</u>
A Radiation Safety Work Control Form (RSWCF) is required for all penetrations that meet any of the following conditions (contact the area safety officer for more information):	___	<u>X</u>
<ul style="list-style-type: none"> • Into or through non-concrete radiation shielding • Into concrete radiation shielding, with penetration exceeding 2 inches in diameter • Into concrete radiation shielding, with penetration exceeding 6 inches deep • Into concrete radiation shielding where penetration is not re-filled with a dense material (e.g. concrete or steel) • All the way through concrete radiation shielding 		
Checklist completed by: <u>Hans Infeld</u>	Date: <u>8-3-09</u>	

Complete "Hazards and Required Controls" section.

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Hazards and Required Controls

May reference JHAM or AHA if hazards/controls are documented there

Hazards

Type and size of energy sources present (including results from NDT, if used):

N/A

Hazards specific to the tools that will be used:

Noise & flying debris

Work environment hazards (such as moisture, lead, asbestos, etc.):

N/A

Other hazards:

N/A

Controls

Procedural requirements:

use drill bit depth gauge

Types and classification of PPE:

ear plugs + safety glasses

Other controls:

N/A

Complete the "Radiological Safety" section if appropriate, and complete the Review, Approval, and Authorization section at the end of this form.

Radiological Safety

Radiological Survey, RP Field Operations Group, Ext. 4299

This section to be completed by RP if the penetration will be within a radiologically controlled area, radioactive materials management area, or accelerator housing. Please allow two days.

Pre-work survey required Radiological HEPA vacuum cleaner required

Additional requirements for this penetration:

Penetration does not need special requirements.

Checked by: _____

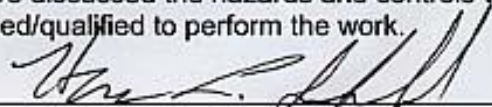
Date: _____

Review, Approval, and Authorization

Any deviation from the scope of work identified on this permit requires re-validation of this permit. This penetration permit expires 30 days after issuance.

Class 1 & 2 Authorizations

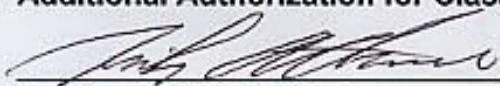
I have discussed the hazards and controls with the workers and verified that they are trained/qualified to perform the work.



Responsible line manager/designee signature

DATE: 8-3-09

Additional Authorization for Class 2



Area responsible person (e.g. area or building manager)

DATE: 8-3-09